

Criteria and procedure for evaluating learning outcomes

The criteria for evaluating the knowledge and skills of higher education students from the educational component "Technology of homeopathic medicines" were developed in accordance with POL A2.2-25-031 Regulations on the assessment of knowledge of higher education students at the National Pharmaceutical University.

The evaluation of the success of higher education institutions in the educational component is a rating, is presented on a one-point scale and is defined according to the ECTC system and according to the traditional scale adopted in Ukraine.

Evaluations (in points) are reflected in the calendar-thematic plans of practical classes.

The number of points that a student receives in a practical lesson ranges from 4 to 6.

Evaluation criteria	Scores
<p><i>theoretical training:</i></p> <ul style="list-style-type: none"> ➤ showed comprehensive and in-depth knowledge of the theoretical material from "Technology of homeopathic medicines" on the subject of the lesson, which is presented in the textbook, lecture texts and additional literature; ➤ completed the written homework flawlessly; ➤ gave comprehensive answers to the teacher's theoretical questions; <p><i>practical training:</i></p> <ul style="list-style-type: none"> ➤ wrote out a prescription without errors according to the current RTB; ➤ gave the characteristics of the medicinal plant raw materials taking into account the juice content and moisture content of the raw materials / or gave the characteristics of the medicinal substance (physico-chemical properties); ➤ correctly processed and prepared fresh medicinal plant raw materials (if necessary) in accordance with the requirements of the SPhU; ➤ correctly prepared his workplace (picked up weighing and measuring devices, utensils, auxiliary material, etc.); ➤ calculated the amount of solvent and active substance on the reverse side of the written control passport without errors; ➤ correctly prepared a homeopathic medicinal product, observing the pharmaceutical order and sanitary regime at his workplace; ➤ packaged and prepared the homeopathic medicinal product for release in accordance with current requirements; ➤ handed over to the teacher for inspection an impeccably prepared homeopathic medicinal product with the necessary documentation (prescription and PWC). 	5.0–6.0
<p><i>theoretical training:</i></p> <ul style="list-style-type: none"> ➤ showed full knowledge of the theoretical material on the topic of the lesson, which is presented in the textbook and lecture texts; ➤ completed written homework without errors; ➤ gave answers to the teacher's theoretical questions with minor shortcomings; ➤ correctly answered 4 test tasks during the input control of knowledge; <p><i>practical training:</i></p> <ul style="list-style-type: none"> ➤ wrote out a prescription without errors according to the current RTB; ➤ gave an incomplete description of the medicinal plant material / or medicinal substance; ➤ correctly processed and prepared fresh medicinal plant raw materials (if necessary) in accordance with the requirements of the SPhU; ➤ prepared his workplace with errors (for example, irrationally selected dishes, etc.); ➤ made calculations on the reverse side of the PWC without errors; ➤ correctly prepared a homeopathic medicinal product with small errors in compliance with the pharmaceutical order and sanitary regime in his workplace (for example, he did not wipe the scales before work, etc.); ➤ packaged and processed a homeopathic medicinal product with insignificant errors (sloppy labels or signature, etc.) before release; ➤ handed the prepared homeopathic medicinal product with the necessary documentation (prescription and PWC) to the teacher for verification. 	3.0–4.9
<i>theoretical training:</i>	2.9–2.0

<ul style="list-style-type: none"> ➤ showed knowledge of the theoretical material from "Technology of homeopathic medicines" on the topic of the lesson in the amount that is considered necessary and sufficient to perform the practical part of the lesson; ➤ completed written homework with errors; ➤ gave answers to theoretical questions with errors, which he corrected with the help of the teacher; <p>practical training:</p> <ul style="list-style-type: none"> ➤ mistakes were made when writing a prescription according to the current RTB; ➤ gave an incomplete description of the medicinal plant material / or medicinal substance; ➤ incorrectly processed and did not prepare fresh medicinal plant raw materials in accordance with the requirements of the SPhU (if necessary); ➤ prepared his workplace with errors (for example, irrationally selected dishes, etc.); ➤ made calculations on the reverse side of the PWC without errors; ➤ correctly produced a homeopathic medicine, but the technology is irrational and without theoretical justification; ➤ made mistakes in compliance with the pharmaceutical order and sanitary regime in his workplace (for example, did not wipe the scales before work, etc.); ➤ packed and issued a homeopathic medicinal product with errors before release (incorrectly selected/calculated ethanol concentration, the technological order of the ingredients in the PWC was not met, not all labels were pasted, etc.); ➤ handed the prepared homeopathic medicinal product with the necessary documentation (prescription and passport of written control) to the teacher for verification. 	
<p>theoretical training:</p> <ul style="list-style-type: none"> ➤ did not complete written homework; ➤ did not get acquainted with the theoretical material on "Technology of homeopathic medicines" on the topic of the lesson, which is presented in the textbook and lecture texts; ➤ did not answer the teacher's theoretical questions; <p>practical training:</p> <ul style="list-style-type: none"> ➤ gross mistakes were made when writing a prescription; ➤ did not give a description of the medicinal plant material / or medicinal substance; ➤ prepared his workplace with errors; ➤ calculations on the reverse side of the PWC are made with errors; ➤ chose the wrong technology of homeopathic medicine and did not provide its theoretical justification. 	0–2.9

The student's independent work is monitored during each practical session, during the control of the content module.

In the event that the SHE came to the class unprepared, he must be present at the class. After working with the electronic study guide for independent work on the Technology of homeopathic medicines and an individual conversation with the teacher on the topic of the lesson, the student is admitted to practical work.

Control of mastering content modules is carried out in the last classes of studying the topics of content modules. The means of diagnosing students' knowledge are 2 theoretical questions and 1 practical question. Only those students who have completed all types of work provided by the curriculum (worked out, missed practical classes, etc.)

Control of CM 1 is carried out in order to check the level of assimilation of theoretical material and practical skills. Theoretical knowledge is controlled by solving 2 calculation problems and 1 prescription. Control of practical skills is carried out by preparing homeopathic medicines according to an individual prescription and drawing up the relevant documentation.

Control of CM 2 is carried out in order to check the level of assimilation of theoretical material and practical skills. Theoretical knowledge is controlled by solving 2 calculation problems and 1 prescription. Control of practical skills is carried out by preparing homeopathic medicines according to an individual prescription and drawing up the relevant documentation.

Ticket structure:

- an individual prescription, according to which the SHE must describe and manufacture a homeopathic medicinal product;
- 2 calculation problems.

Evaluation criteria	Scores
<p><i>An individual prescription, according to which SHE must describe and manufacture a homeopathic medicinal product;</i></p> <ul style="list-style-type: none"> • wrote out a prescription without errors according to the current ND; • gave a detailed description of the medicinal product taking into account the physico-chemical properties of medicinal substances; • correctly prepared his workplace (picked up weighing devices, utensils, auxiliary material, etc.); • performed calculations on the reverse side of the written control passport without errors; • correctly prepared the medicinal product, observing the pharmaceutical order and sanitary regime in his workplace; • packaged and processed the medicinal product before release in accordance with current requirements; <p>handed over to the teacher for inspection an impeccably prepared medicinal product with the necessary documentation (prescription and PWC).</p> <p><i>Calculation tasks</i></p> <ul style="list-style-type: none"> • Correctly solved calculation problems with an explanation of the sequence of actions 	<p>10.0–15.0</p> <p>14.0 –15.0</p>
<p><i>An individual prescription, according to which SHE must describe and manufacture a homeopathic medicinal product;</i></p> <ul style="list-style-type: none"> • issued a prescription without errors according to the current one; • gave an incomplete description of the medicinal product; • prepared his workplace with errors (for example, irrationally selected dishes, etc.); • performed calculations on the reverse side of the PWC without errors; • correctly prepared the medicinal product with minor errors in compliance with the pharmaceutical order and sanitary regime in his workplace (for example, he did not wipe the scales before work, etc.); • packaged and issued a medicinal product with minor errors (carelessly pasted labels or signature, etc.); <p>handed over the prepared medicinal product with the necessary documentation (prescription and PWC) to the teacher for verification.</p> <p><i>Calculation tasks</i></p> <ul style="list-style-type: none"> • Correctly solved calculation problems without explaining the sequence of actions 	<p>12.0–14.0</p>
<p><i>An individual prescription, according to which SHE must describe and manufacture a homeopathic medicinal product;</i></p> <ul style="list-style-type: none"> • mistakes were made when writing a prescription according to the current ND; • gave a description of the medicinal product that does not reflect the characteristics of the medicinal product; • prepared his workplace with errors (for example, irrationally selected dishes, etc.); • performed calculations on the reverse side of the PWC without errors; • correctly prepared the medicinal product, but the technology is irrational and without theoretical justification; • made mistakes in compliance with the pharmaceutical order and sanitary regime in his workplace (for example, did not wipe the scales before work, etc.); • packaged and processed a medicinal product with errors before release (the technological order of the ingredients in the PWC was not met, not all labels were pasted, etc.); • submitted the prepared medicinal product with the necessary documentation (prescription and passport of written control) to the teacher for verification. <p><i>Calculation tasks</i></p> <ul style="list-style-type: none"> • Solved one of the two calculation problems incompletely without explaining the sequence of actions 	<p>11.0–12.0</p>
<p><i>An individual prescription, according to which SHE must describe and manufacture a homeopathic medicinal product;</i></p> <ul style="list-style-type: none"> • mistakes were made when writing a prescription according to the current ND; • did not give a description of the medicinal product; • prepared his workplace with errors (for example, irrationally selected dishes, etc.); • performed calculations on the reverse side of the PWC without errors; 	<p>10.0–11.0</p>

<ul style="list-style-type: none"> • correctly prepared the medicinal product, but the technology is irrational and without theoretical justification; • made mistakes in compliance with the pharmaceutical order and sanitary regime in his workplace (for example, did not wipe the scales before work, etc.); • packaged and processed a medicinal product with errors before release (the technological order of the ingredients in the PWC was not met, not all labels were pasted, etc.); • submitted the prepared medicinal product with the necessary documentation (prescription and passport of written control) to the teacher for verification. <p>Calculation tasks</p> <ul style="list-style-type: none"> • Solved one of the two calculation problems incompletely without explaining the sequence of actions 	
<p><i>An individual prescription, according to which SHE must describe and manufacture a homeopathic medicinal product;</i></p> <ul style="list-style-type: none"> • made gross mistakes when writing a prescription; • did not give a description of the medicinal product; • prepared his workplace with errors; • calculations on the reverse side of the PWC are made with errors; • chose the wrong drug technology and did not provide its theoretical justification. <p>Calculation tasks</p> <ul style="list-style-type: none"> • Did not solve any of the proposed calculation problems 	Less 10

The sum of points for the study of CM is the sum of the points received by the student during the study of all topics of the content module.

The semester assessment is conducted by summarizing the module study results, increasing the rating if desired and filling out the reporting documentation.

The evaluation of the student's success in the discipline is a rating, is presented on a one-point scale and is defined according to the ECTS system and the traditional scale adopted in Ukraine.

It has been approved at the Department of pharmaceutical technology of drugs _____

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Head of the Department, prof.



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